

Title	IMDG Code 2016 / SUPPLEMENT / IMO/ILO/UNECE Guidelines for Packing Cargo Transport Units / ANNEX 6
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ANNEX 6

Topics to be included in a training programme for the packing and securing of cargoes in cargo transport units (CTUs)

1 Consequences of badly packed and secured cargo

- 1.1 Injuries to persons and damage to the environment
- 1.2 Damage to ships and CTUs
- 1.3 Damage to cargo
- 1.4 Economic consequences

2 Liabilities

- 2.1 Different parties involved in cargo transport
- 2.2 Legal responsibility
- 2.3 Goodwill responsibility
- 2.4 Quality assurance

3 Forces acting on the cargo during transport

- 3.1 Road transport
- 3.2 Rail transport
- 3.3 Sea transport

4 Basic principles for cargo packing and securing

- 4.1 Prevention from sliding
- 4.2 Prevention from tipping
- 4.3 Influence of friction
- 4.4 Basic principles for cargo securing
- 4.5 Dimensions of securing arrangements for combined transportation

5 CTUs - types

- 5.1 Containers
- 5.2 Flats
- 5.3 Swap-bodies
- 5.4 Road vehicles
- 5.5 Rail-cars/wagons

6 Cargo care consciousness and cargo planning

- 6.1 Choice of transport means
- 6.2 Choice of CTU type
- 6.3 Check of CTU prior to packing
- 6.4 Cargo distribution in CTUs
- 6.5 Requirements from the receiver of cargo regarding cargo packing
- 6.6 Condensation risks in CTUs
- 6.7 Symbols for cargo handling

7 Different methods for cargo packing and securing

- 7.1 Lashing
- 7.2 Blocking and bracing
- 7.3 Increasing friction

8 Equipment for securing and protection of cargo

- 8.1 Fixed equipment on CTUs
- 8.2 Reusable cargo-securing equipment
- 8.3 One-way equipment
- 8.4 Inspection and rejection of securing equipment

9 Packing and securing of unitized cargo (bulk)

- 9.1 Cases
- 9.2 Palletized cargoes
- 9.3 Bales and bundles
- 9.4 Bags on pallets
- 9.5 Big bags
- 9.6 Slabs and panels

9.7 Barrels

9.8 Pipes

9.9 Cartons

10 Packing and securing of non-unitized cargo (break-bulk)

10.1 Different types of packaged cargoes loaded together

10.2 Packing of heavy and light cargoes together

10.3 Packing of rigid and non-rigid cargoes together

10.4 Packing of long and short cargoes together

10.5 Packing of high and low cargoes together

10.6 Packing of liquid and dry cargoes together

11 Packing and securing of paper products

11.1 General guidelines for the packing and securing of paper products>

11.2 Vertical rolls

11.3 Horizontal rolls

11.4 Sheet paper on pallets

12 Packing and securing of cargo requiring special techniques

12.1 Steel coils

12.2 Cable drums

12.3 Wire rolls

12.4 Steel slabs

12.5 Steel plates

12.6 Big pipes

12.7 Stone blocks

12.8 Machines

13 Packing and securing of dangerous cargoes

13.1 Regulations for the transport of dangerous cargoes

13.2 Definitions

13.3 Packing regulations

13.4 Packing, separation and securing

13.5 Labelling and placarding

13.6 Information transfer when transporting dangerous cargoes

13.7 Liabilities